

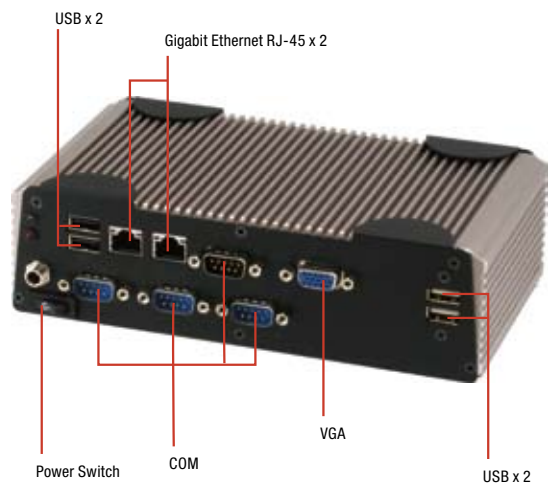
AEC-6612 Rev. A

Fanless Embedded Controller with Intel® Atom™ D510 Processor

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BOXER Lite Series - Fanless Embedded Controller Solutions

Front View



Rear View



Features

- Intel® Atom™ D510 Processor
- Up To COM x 6, USB x 6
- Fanless Operation
- 9 ~ 30V DC Input (Optional)
- PCI-Express Mini Card x 2
- SATA Hard Disk Drive Bay Inside
- ATX/ ACPI Power Mode



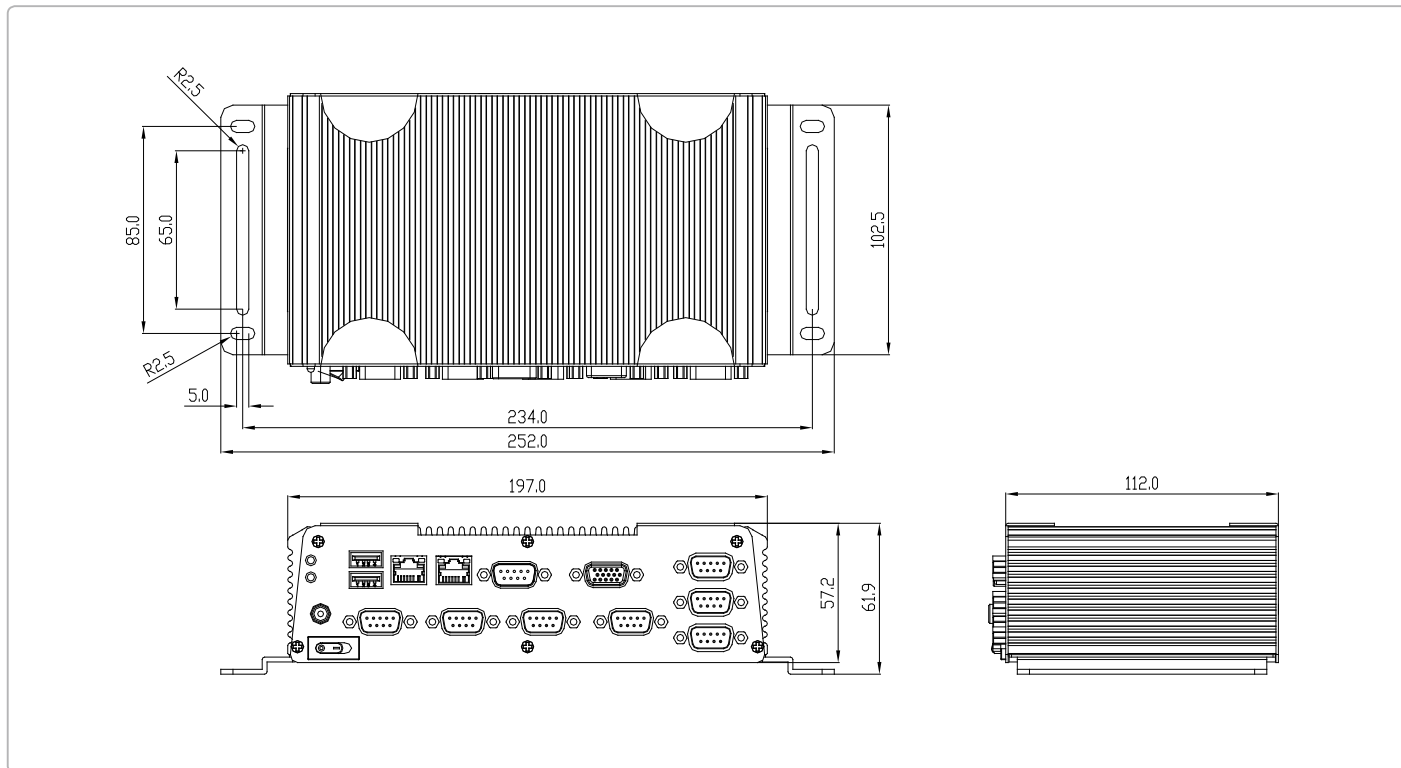
Specifications

| | | |
|-----------------------|--|--|
| CPU | Intel® Atom™ D510 1.66GHz | |
| Chipset | ICH8M | |
| System Memory | DDR2 SDRAM SODIMM x 1, Max. 2 GB | |
| Display Interface | VGA | DB-15 x 1, shared system memory up to 384MB |
| | DVI | — |
| | Others | 2nd VGA x 1 (Optional Extension Kit) |
| Storage Device | SSD | CompactFlash™ Slot |
| | HDD | 2.5" SATA 1.5Gb/s Slim Hard Disk Drive Bay |
| Network | LAN | Gigabit Ethernet, RJ-45 x 2 |
| | Wireless | — |
| Front I/O | USB Port | USB2.0 x 2 (AEC-6612-A1/A1M-1010), USB2.0 x 6 (AEC-6612-A2/A2M-1010) |
| | LAN | RJ-45 x 2 |
| | Serial Port | RS-232/422/485 x 1, RS-232 x 1 (AEC-6612-A1/A1M-1010), RS-232 x 5 (AEC-6612-A2/A2M-1010) |
| | DIO | — |
| | Audio | — |
| | KB/MS | — |
| | Others | Power Switch x 1, Reset Button x 1, Power inlet x 1 |
| Rear I/O | USB Port | — |
| | LAN | — |
| | Serial Port | — |
| | DIO | — |
| | Audio | — |
| | KB/MS | — |
| | Others | CompactFlash™ slot x 1 |
| Expansion | PCIe [x1] | — |
| | PCI | — |
| | Mini Card | 2 |
| | Mini PCI | — |
| | Others | — |
| Indicator | Front | Power LED x 1, Hard Disk Drive LED x 1 |
| | Rear | — |
| Power Requirement | DC-in 9~30V/ DC-in 12 V input | |
| Power Consumption | Intel® Atom™ D510, 1.18A@12V | |
| System Cooling | Passive Cooling | |
| Mounting | Wallmount | |
| Operating Temperature | Ambient with Airflow | No Airflow |
| | -4°F ~ 122°F (-20°C ~ 50°C) - CFD | -4°F ~ 113°F (-20°C ~ 45°C) - CFD |
| | -4°F ~ 131°F (-20°C ~ 55°C) - HDD | -4°F ~ 122°F (-20°C ~ 50°C) - HDD |
| Storage Temperature | -4°F ~ 140°F (-20°C ~ 60°C) | |
| Anti-Vibration | 5 g rms/ 5 ~ 500Hz/ operation - CFD, | |
| | 1 g rms/ 5 ~ 500Hz/ operation - HDD | |
| Anti-Shock | 50 G peak acceleration (11 msec. duration) - CFD | |
| | 20 G peak acceleration (11 msec. duration) - HDD | |
| MTBF | 50,000 | |
| Certification | EMC | CE /FCC Class A |
| | Safety | — |
| Dimension (W x H x D) | 7.76" (w) x 2.44" (H) x 4.41" (D) (197mm x 57mm x 112mm) | |

AEC-6612 Rev. A

Dimension

Unit: mm



| | |
|--------------|---|
| Gross Weight | 4.31 lb (1.96 Kg) |
| Note | Windows® Embedded Standard, Windows® XP Pro, Windows® 7, Linux Fedora |

Ordering Information

| Part Number | CPU | RAM | LAN | USB | RS-232 | RS-232/422/485 | DIO | AUDIO | Storage | Accessory Cables | Display | Expansion | Mounting | Power | Temp. |
|----------------------|-------------------------------------|-----|-----|-----|--------|----------------|-----|-------|----------------------------|------------------|---------|---------------|--|----------|--|
| TF-AEC-6612-A1-1010 | Intel® Atom™ D510 1.66GHz processor | — | 2 | 2 | 1 | 1 | — | — | CFD kit x 1 HDD kit x 1 | — | VGA x 1 | Mini Card x 2 | Wall mount Din Rail Mount Kit (Option) VESA Mount Kit (Option) | DC 12V | -20°C ~ 45°C with CFD (w/o air) -20°C ~ 50°C with HDD (w/o air) |
| TF-AEC-6612-A1M-1010 | Intel® Atom™ D510 1.66GHz processor | — | 2 | 2 | 1 | 1 | — | — | CFD kit x 1 HDD kit x 1 | — | VGA x 1 | Mini Card x 2 | Wall mount Din Rail Mount Kit (Option) VESA Mount Kit (Option) | DC 9-30V | -20°C ~ 45°C with CFD (w/o air) -20°C ~ 50°C with HDD (w/o air) |
| TF-AEC-6612-A2-1010 | Intel® Atom™ D510 1.66GHz processor | — | 2 | 6 | 5 | 1 | — | — | CFD kit x 1 HDD kit x 1 | — | VGA x 1 | Mini Card x 2 | Wall mount Din Rail Mount Kit (Option) VESA Mount Kit (Option) | DC 12V | -20°C ~ 45°C with CFD (w/o air) -20°C ~ 50°C with HDD (w/o air) |
| TF-AEC-6612-A2M-1010 | Intel® Atom™ D510 1.66GHz processor | — | 2 | 6 | 5 | 1 | — | — | CFD kit x 1 HDD kit x 1 | — | VGA x 1 | Mini Card x 2 | Wall mount Din Rail Mount Kit (Option) VESA Mount Kit (Option) | DC 9-30V | -20°C ~ 45°C with CFD (w/o air) -20°C ~ 50°C with HDD (w/o air) |

Packing List

- Wallmount Bracket x 2
- Screw Package x 1
- Phoenix Power Connector x 1
- CD-ROM for Manual (in PDF Format) and Drivers
- AEC-6612 Rev. A

Optional Accessories

- **1757306007**
Power Adapter (60W), Output: DC 12V - for AEC-6612-A1/A2
- **1757904002**
Power Adapter (40W), Output: DC12V - for AEC-6612-A1M/A2M
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **9741662505**
VESA Mount Kit
- **9741681003**
Din Rail Mount Kit
- **9741C50W01**
Mini Card (PCIe) 802.11 b/g/n + Bluetooth 3.0
- **9741661100**
I/O Dust Cover Kit
- **9741661201**
Single 2.5" SATA Removable HDD Assembly Kit